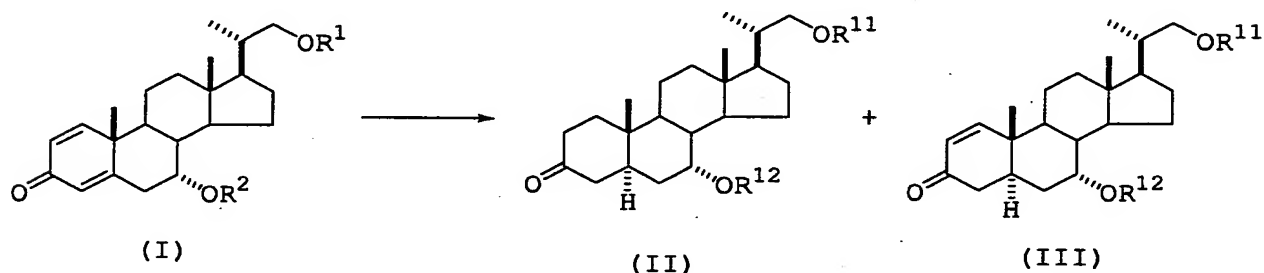


## Abstract

The present invention relates to a method of producing a mixture of  $5\alpha$ -pregnane derivatives represented by the formula (II) and the formula (III), which is characterized by reacting a pregnane derivative represented by the formula (I) with a metal selected from alkali metals and alkaline earth metals in the presence of a proton donor and an amine and/or ammonia. According to the present invention, a method capable of producing  $5\alpha$ -pregnane derivatives useful as synthetic intermediates for squalamine, in a high yield from easily available raw materials, can be provided:



wherein  $\text{R}^1$  is a hydroxyl-protecting group, and  $\text{R}^2$ ,  $\text{R}^{11}$  and  $\text{R}^{12}$  are each independently a hydrogen atom or a hydroxyl-protecting group.